

# Miller SafEscape ELITE™

## Q&A

### Good to know!

**According to which standards has the Miller SafEscape ELITE™ been tested?**

The **Miller SafEscape ELITE™** has been tested and certified according to new EN 341:2008 Class A as well as EN 1496:2007 Class B, ISO 22159, ANSI Z359.4-2007.

The CSA certification is in process.

(The ISO standard is the equivalent of the EN 341/2008 in the international Standardization.)

**What is the difference between the old EN 341 and the new EN 341/2008**

prEN 341:2008	EN 341:1993
Tests have to be done with a single descender device and in a prescribed order: Dynamic strength test Function tests Descent energy test Static strength test	<b>No need to regard a certain order when doing the tests</b> <b>For several tests a new un proofed and unused descender device can be used, no need to use the same device for the whole test procedure.</b>
Static strength test – test force: 10 times the max rated load, but at least 12 kN – static test is the last test in the test procedure – <b>with the same device</b>	Static strength test – test force: 12 kN – <b>can be done with a new unproofed and unused descender</b>
Descent energy test:  <b>Test mass = 100 kg</b>  <b>The force effecting the device is twice as much higher as it was in the EN 341:1993</b>	Descent energy test:  Test mass = 75 kg for class A
<b>Rope needs to be conform with EN 1891:1998</b>	The selection of the rope is relinquished to the manufacturer
<b>Optional wet and dry test (Done for the Miller SafEscape)</b> Functional test 30 kg dry – 500 m Functional test 125 kg dry- 500 m Functional test 30 kg wet – 500 m Functional test 125 kg wet - 500 m	

## What is the difference between Class A and B?

### Why the Miller SafEscape ELITE™ meet class A and not class B?

Descender device class A
A class A devise has to deal with five times more descends then a Class B device

The duration from a Device meets the EN 341 Class A is five times higher then a Class B Device.

For the segments the Miller SafEscape ELITE™ is used (i.e. Windenergy) It is essential to be able to deal also with the height and the need to rescue more people.

(i.e. Mittelmann RG 9: maximum high of descending 150 m with 150 kg. Vs MillerSafescape ELITE 8 000 m with 100kg)

### When will the current EN 341 standard be replaced by the new standard EN 341/2008?

During 2009, the preEN 341/2008 shall replace the former EN 341 and be regarded as state of the art.

### What are the main benefits of Miller SafEscape ELITE™?

#### Enhanced safety

In a rescue or evacuation procedure time and environmental conditions are often against you and you need to be able to rely on your safety solution. You can trust our Miller SafEscape ELITE to take you to safety even under the harshest conditions:

Has been tested to withstand the rigors of bad weather: in dry, but in accordance to the new EN341/2008 also in wet conditions. Thanks to its durable high-quality anodized aluminum housing, our unit remains in optimum condition of use, even in the toughest environments Miller SafEscape ELITE complies with the new EN 341/2008 standard, which sets out the most thorough tests for rescue devices including:

8000 m descent for 100 kg (16 x 500 m)

Maximum descent height of 500 m

Use in an emergency by 2 people weighing up to 250 kg

#### Greater cost-savings

Made out of robust and highly resistant materials, it can be inspected every seven years instead of annually when unused, reducing down time and lowering the cost of ownership. A yearly inspection can be done from a competent person.

**When used for training purposes, the unit requires recertification from the manufacturer or an authorized competent person only after 3000 meters. Up to 3000 meters, a visual inspection by an authorized competent person is sufficient.**

#### **Increased ease-of-use**

The position and design of the hand wheel reduces swaying during lifting, facilitating evacuation procedures.

Descent is quick (1m/s) and smooth, thanks to a centrifugal brake, which controls the descent and reduces vibration.

#### **Global solution**

Miller SafEscape ELITE is CE, ANSI and OSHA certified, making it the perfect unit when a global solution is required.

#### **Is a training necessary to use the Miller SafEscape ELITE™ ?**

The **Miller SafEscape™** is to be used only by persons who are appropriately trained / or otherwise skilled or under the supervision of appropriate trained people (i.e. in a evacuation case). Also, precise directives for emergency cases have to be observed.

#### **For what purpose can the Miller SafEscape ELITE™ be used?**

The **Miller SafEscape ELITE™** is used to rescue persons who have had an accident while working on places situated at height or at lower levels (i.e., Towers / man holes) or to evacuate people from higher working places.

It is not to be used for routine access or egression.

In general we have two situations:

#### **Rescue:**

If an accident happens during climbing or working at height, the injured person can be suspended in the fall protection system. The SafEscape ELITE will allow you to lift the person if necessary to release him.

→ *Miller SafEscape ELITE with the handwheel*

#### **Evacuation:**

If you have to evacuate people from higher workplaces in case of a emergency (i.e. fire in a WPG nacelle, Skilift).

→ *Miller SafEscape ELITE or Miller SafEscape ELITE with the handwheel*

The **Miller SafEscape ELITE™** is not a fall arrester!

The **Miller SafEscape ELITE™** may not be used to lift or descend heavy loads.

**Which loads can be descended by means of the Miller SafEscape ELITE™ and from which height?**

Descend loads possible from 30 kg – 250 kg (2 people)

- 75 kg / max. 20 x 500 m (10.000 m)
- 100 kg / max. 16 x 500 m (8.000 m)
- 150 kg / max. 4 x 250 m
- 250 kg / max. 2 x 200 m
- also approved for weights up to 250 kg

Maximum descend height:: 500 m

However, the mentioned values apply solely in case of an emergency use.

**At what speed does the operator descend?**

The descending speed corresponds to 1m/s for one user with 100 kg and for two people with 200 kg the speed increases linear to 1,4 m/s.

**Which loads can be lifted with the Miller SafEscape ELITE™ and up to which height?**

By means of the descending and lifting device, 100kg can be lifted by approx. 3,5 m.

The maximum lifting capacity is 280kg. The last mentioned values apply solely in case of an emergency use.

### **Where and how can the Miller SafEscape ELITE™ be anchored to?**

We recommend an anchor point as an attachment which complies to the EN 795.

The connection to the anchorage point can be established by lanyards complying with EN 354, positioning lanyards complying to EN 358, karabiner hooks complying to EN362, guided type fall arresters on flexible line complying to EN 353-2 or by strap loops and anchorage loops complying to EN 795.

Whenever possible, the anchorage point chosen should be located where a clear and descent free from any obstructions or edges

### **When does the Miller SafEscape ELITE™ need to be inspected and by whom?**

Provided it is stored appropriately no annually re-certification is required by the manufacturer or by service point during the products first seven years.

The **Miller SafEscape ELITE™** must be inspected by a competent trained person at least annually, even if it is not in regular operation and stored according the recommendation of the manufacturer. If during inspection damages it is found or if any doubts about its functionality arise, the device must be sent to the manufacturer or to a service point for servicing.

Every seven years at the latest, the manufacturer shall carry out directly an expert inspection or have it done by an authorized expert who has been adequately trained.

If the product is regularly used the **Miller SafEscape Elite™** has to be re certified after total of 3 000m of descents.

### **How is the Miller SafEscape ELITE™ to be stored?**

The rescue equipment shall be kept in a dry place and not be exposed to UV-rays. Care shall be taken not to expose the unit or the rope to flame, weld splatter, the spray from steel cutting or any other heat source. Any contact with acids, caustic liquids, coolants and oils must be avoided.

### **How to clean the Miller SafEscape ELITE™?**

The ropes of the **Miller SafEscape ELITE™** can be cleaned with warm water and mild detergent. After rinsing thoroughly with clear water, removing all of the detergent from, the ropes. It shall be allowed to dry naturally and not be exposed to heat sources.

### **At which temperature can the Miller SafEscape ELITE™ be used?**

The temperature for the use of the **Miller SafEscape ELITE™** is -30°C to +60°C.

### **Who is entitled to carry out training concerning the use of the Miller SafEscape ELITE™?**

Only Trainer with experience in the Rescue is allowed to train the Miller SafEscape ELITE™.

### **Do we have restrictions for Training purposes?**

For training purposes, the device must be inspected by an Trainer or competent person before and after each training and after, a maximum total descending length of 1 000m latest after each training session. The descending distance covered must be recorded in the handling handbook included in the delivery. After 3 000 m a total descending distance covered, or whenever doubts regarding the functionality of the equipment arise, the device must be sent to the manufacturer or to an authorized Miller service point.

### **Which rope lengths are available for the Miller SafEscape ELITE™?**

As a standard, the **Miller SafEscape ELITE™** is equipped with a rope length of 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170 and 180 m as well as according to customers' request.

### **Why does the Miller SafEscape ELITE™ have three perforations in its housing?**

To improve the aeration in order to keep the **Miller SafEscape ELITE™** as cool as possible during the descending action.

### **Which special features does the rope offer?**

To fulfill the greater demands request of the EN 341/2008 we have designed a rope

For Example?

The rope has a specially designed texture, enabling it to withstands extremely high compression and tensile forces. The focus was put on a low stretch and displacement of the rope. This has enabled us to create the toughest and hardest wearing rope in the descending device sector.

### **Has the rope been tested, too?**

The rope is an essential component of the **Miller SafEscape ELITE™** and has been also certified according the standard EN 1891:1998 and together with the **Miller SafEscape ELITE™** according the EN 341/ 2008. As only the rope provided by Miller is tested by the manufacturer and by the monitoring authority, no other rope can be utilized.

### **How can it be verified that the right rope is being used?**

**Miller SafEscape ELITE™** is marked by the manufacturer with black and blue identification threads. A further unmistakably sign is the marking label on one end of the sewing pattern.

The rope can only exchanged by the manufacturer or a Miller Service Point.

### **Which special features does the rope guide offer?**

The rope guide (entry and exit of the rope into the device) has been designed in a way to reduce friction on the device.

### **How can the application history of the Miller SafEscape ELITE™ verified?**

Each time the device is used, it must always be recorded in the user's manual delivered with the device. Herewith, it can be verified how many times it has been used.

### **Can the operation of the axle shafts be verified?**

The axle shafts are externally visible, which makes it possible to easily and reliably verify their proper operation before each use. Furthermore, a simple functional test (by pulling the rope through the device) enables the smooth operation of the axles to be confirmed.

### **Which material is used for the Miller SafEscape ELITE™?**

The housing is made of the special aluminum EN AW-5083 H111. This aluminum combines the benefits of a lightweight and solid material. In order to reach the required rigidity, steel has been used for the parts which are statically loaded.



### **Do you offer accessories together with the Miller SafEscape ELITE™?**

Miller is offering a wide range of accessories in order to use the device in all fields of applications. Karabiners, pulleys, rope clamps and even telescopic elements are part of the program.

### **Is the Miller SafEscape ELITE™ available with ladder adapter?**

Miller SafEscape is available with a range of fittings:

- MillerSafEscape ELITE
- MillerSafEscape ELITE with hand-wheel
- MillerSafEscape ELITE with hand wheel and ladder adapter

The ladder adapter is for all ladder rungs up to 30 mm and it's fitted directly on the rungs. The ladder adapter keeps the **Miller SafEscape ELITE™** in position while a additional positioning lanyard guarantees the anchorage of the device.

### **Does the Miller SafEscape ELITE™ contain grease or lubricants for the moving parts?**

As lubricants can liquefy when heated and affect negatively the braking action, the utmost importance has been given in using long-life and robust materials which do not need lubricating.

### **What about the durability of the special rope?**

Depending on its storage, the **Miller SafEscape ELITE™** rope has an expected durability of maximum 8 years. The rope shall be kept in dry and not be exposed to UV-rays. Any contact with acids, caustic liquids and oils must be avoided.

### **Why Miller can offer seven years manufacturer's inspection of the Miller SafEscape ELITE™ ?**

In the design of the **Miller SafEscape ELITE™**, Miller took into consideration the requirements of the users. The direct inspections costs are not the only one significant issue, the indirect costs, i.e., the replacement of the device, handling etc. are a considerable cost factor.

The **Miller SafEscape ELITE™** is an extremely solid device, made from the best available corrosion and rust resistant materials. Our extensive experience with the manufacture and servicing of Fall Arrest blocks, enables us to be very selective about the materials we use and the fundamental design so that we can confidently support our products with a prolonged inspection cycle requirement.



**Under which brand do we sell the Miller SafEscape ELITE™?**

We will sell the **Miller SafEscape ELITE™** under the Miller brand only.

**For what applications the Miller SafEscape ELITE™ of product can be used?**

The **Miller SafEscape ELITE™** is ideal for rescue or evacuation situations from:

- wind turbines
- antennae
- high voltages masts
- cranes
- any areas normally inaccessible by conventional means.

**Can we order spare parts?**

Inspection and Re- certification of the **Miller SafEscape ELITE™** can only be done from the Manufacturer or Miller Service Points.

**Can we get Training to become a competent person to recertify the Miller SafEscape ELITE™?**

Miller also offer Training to become a competent person to re- certify the Miller SafEscape ELITE™.